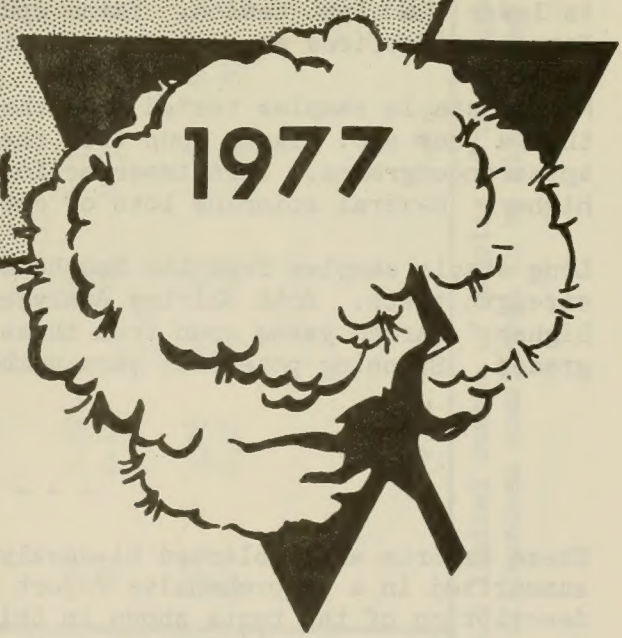
REPORT NO. 6

Cotton Fiber and Processing Test Results

CROP of 1977



Agricultural Marketing Service
U.S. DEPARTMENT OF AGRICULTURE
Memphis, Tenn. 38122 December 2, 1977

COTTON FIBER AND PROCESSING TEST RESULTS, CROP OF 1977

Discussion of Test Results

Southwestern short staple cottons tested through November 25 are slightly longer, more uniform and finer than a year ago, according to the Cotton Division, Agricultural Marketing Service, USDA. Fiber strength is considerably stronger than last season. Picker and card waste is lower. Yarns spun from these samples are stronger. The average spinning potential yarn number is much higher.

Average results of all medium staple cottons tested show fibers to be longer, more uniform and coarser than a year ago. Shirley Analyzer nonlint content is higher but picker and card waste is a little lower. Yarns spun from these samples are weaker and have lower appearance grades. Yarn imperfections are higher.

Medium staple samples tested from the Southeast show approximately the same fiber characteristics as a year ago. Yarns spun from these samples are weaker and have lower appearance grades. The spinning potential yarn number is lower.

South Central medium staple samples tested are longer, more uniform and coarser than last season. Zero gage fiber is somewhat lower. Shirley Analyzer nonlint content is higher. Yarns spun from these samples show weaker yarn skein strength and lower appearance grades. Yarn imperfections are higher. The spinning potential is slightly higher.

Southwestern medium staple samples tested showed about the same fiber characteristics as a year ago, except fiber strength at zero gage is higher. Picker and card waste is lower than last season. Yarns spun from these samples show lower appearance grades. Yarn imperfections are fewer. Spinning potential is lower.

Medium staple samples tested from the West are more uniform, coarser and stronger than a year ago. Yarns spun from these samples are slightly stronger, but have lower appearance grades. Yarn imperfections are higher. Spinning potential yarn number is higher. Several spinning lots of cotton from this area stuck to the processing rolls.

Long staple samples from the Southeast are shorter, coarser and weaker at 1/8 gage strength tests. Both Shirley Analyzer nonlint content and picker and card waste are higher. Carded yarns spun from these samples are weaker and have lower appearance grades. Spinning potential yarn number is lower.

- - - - - - - - - - - - -

These reports are published bi-weekly during the harvesting season and will be summarized in a comprehensive report at the end of the crop year. A detailed description of the tests shown in this report may be found in the summary report for the previous season.[1/] These reports are available on request from the Standardization Section, Cotton Division, Agricultural Marketing Service, U. S. Department of Agriculture, 4841 Summer Avenue, Memphis, TN 38122.

1/ Summary of Cotton Fiber and Processing Test Results, Crop of 1976, USDA, AMS, Cotton Division, June 1977.

Table 1.--Cotton: Averages of fiber and processing tests from selected gin points in the United States through November 25, 1977 1/

Staple group Area, and Crop year	Lots tested	Fiber test results						Processing test results				
		Fibrograph		Mike fineness	Fiber strength		S A nonlint	P & C waste	Yarn quality			Spin. Potent.
		2.5% span	50/2.5 unif.		Zero gage	1/8" gage			Skein str.	Appearance	Imperfections	
	No.	Inches	Pct.	Rdg.	Mpsi	G/tex	Pct.	Pct.	Lbs.	Index	No.	Yarn No.
									22s Carded Yarn			
Short Staple:												
Southwest												
1976	15	.97	44	4.5	85	20	3.4	7.3	84	110	14	35
1977	56	.98	46	4.2	89	22	3.3	5.5	100	110	13	48
Medium Staple:												
Southeast												
1976	23	1.08	46	4.7	86	23	3.2	6.2	106	101	20	55
1977	26	1.07	45	4.8	87	22	3.2	6.2	95	95	19	50
South Central												
1976	80	1.08	44	4.3	89	23	2.9	6.1	108	100	16	55
1977	118	1.11	45	4.6	86	23	3.5	6.1	104	95	22	57
Southwest												
1976	27	1.07	45	4.1	81	22	3.2	6.3	104	97	20	57
1977	43	1.08	46	4.2	86	22	3.2	5.7	103	91	18	54
West												
1976	24	1.12	45	4.1	89	25	2.3	5.5	121	90	20	67
1977	36	1.12	46	4.3	96	26	2.5	5.4	124	87	23	71
U.S. Average												
1976	154	1.08	45	4.3	87	23	2.7	6.0	109	98	18	57
1977	223	1.10	46	4.5	87	23	3.3	5.9	105	93	21	58
Significant difference 2/		0.02	2	0.2	2	1	0.5	0.5	4(22s)	5	2	3

1/ Based on a limited number of samples of modal quality

2/ Minimum differences considered to be significant for comparisons in this table.

Table 1.--Cotton: Averages of fiber and processing tests from selected gin points in the United States through November 25, 1977 1/ (Continued)

Staple group, Area, and Crop year	Lots	Fiber Test Results						Processing Test Results								
		Length		Mike	Strength		SA Non-lint	P&C Waste	Comber Waste	Yarn Quality						SPY
		Span	Unif		Zero gage	1/8" gage				Strength		Appearance		Imprfctns		
										carded	combed	carded	combed	card	comb	
	No.	In.	Pct.	Rdg.	Mpsi	G/tx	Pct.	Pct.	Pct.	Lbs.	Lbs.	Indx	Indx	No.	No.	No.
										22s Carded & Combed Yarn						
Long Staple:																
Southeast																
1976	6	1.16	45	4.4	87	26	2.8	6.2	15.8	119	140	107	120	20	8	70
1977	7	1.12	45	4.8	87	23	3.2	7.2	*	100	*	104	*	15	*	57
South Central																
1976	2	1.12	42	3.8	91	26	3.4	6.6	20.8	111	138	100	105	16	8	57
1977	2	1.14	44	4.4	90	24	3.8	6.8	*	105	*	95	*	26	*	63
West																
1976	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1977	3	1.18	47	4.2	90	27	3.2	5.5	*	129	*	93	*	25	*	81
Significant Difference 2/		0.02	2	0.2	2	1	0.5	0.5	0.5	4(22s)	4(22s) 2(50s)	5	5	2	2	3

1/ Based on a limited number of samples of modal quality
2/ Minimum differences considered to be significant for comparisons in this table.
* Combed data not available.

Production Area, Classification & Sample Number			Fiber Test Results									Processing Test Results - Carded Yarns									
			Digital Fibrograph		Mike	Fiber Strength		Elon-gat'n 1/8"	S.A. Non-lint	Color Raw Stock		P & C	Strength		Elongation		Appearance Index		Imprfect'ns		Spin. Potential
No	Grade Name & Code	Stple	2.5% span	Unif		Zero Gage	1/8" Gage			Gra	Yel	Waste	8s or 74 tx	22s or 27 tx	8s or 74 tx	22s or 27 tx	8s or 74 tx	22s or 27 tx	8s or 74 tx	22s or 27 tx	
		32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Lbs	Lbs	Pct	Pct	No	No	No	No	No
SOUTHWEST AREA																					
NORTHWEST TEXAS																					
	ANSON						LANKART 611						100 PERCENT								
2	MID LT SP	32	31	0.95	47	3.5	84	22	7.1	4.4	1	4	6.1	300	100	8.2	6.3	110	110	36	19	46
	BURKBURNETT						LANKART LX571						97 PERCENT								
2	MID LT SP	32	32	1.02	47	4.6	90	23	6.0	3.2	1	4	6.0	290	103	7.4	6.0	120	110	28	16	50
	GOREE						TAMCOT SP21						80 PERCENT								
2	MID LT SP	32	32	1.01	44	3.6	94	23	5.7	2.9	1	4	4.6	324	108	7.7	6.3	110	100	30	17	55
	HALE CENTER						GSA71						85 PERCENT								
1	SLM	41	34	1.03	46	4.1	84	23	7.0	4.7	1	3	6.4 1/	308	106	7.8	6.7	120	110	21	10	59
	LAMESA						BLIGHTMASTER A5						75 PERCENT								
3	MID LT SP	32	31	0.95	46	4.2	89	20	6.2	2.9	1	4	5.3 1/	293	96	7.6	6.3	130	110	19	11	45
	LOCKNEY						MORCOT M78						80 PERCENT								
2	MID LT SP	32	33	1.04	45	3.9	85	22	6.0	4.0	1	4	5.4	308	106	7.8	6.4	120	110	19	11	57
	LOCKNEY						PAYMASTER 18						80 PERCENT								
1	MID	31	31	0.92	47	5.2	82	21	6.7	2.9	1	3	5.6 1/	268	84	7.3	5.9	120	130	18	13	36
	LOOP						PAYMASTER 266						95 PERCENT								
1	MID	31	31	0.97	49	3.9	95	27	6.1	3.8	1	4	5.5	334	116	7.5	6.4	120	120	25	15	62
	LORENZO						PAYMASTER 303						80 PERCENT								
2	MID	31	33	1.04	44	3.7	85	22	6.2	2.9	1	4	4.8	306	105	7.8	6.6	120	110	20	10	61
	PADUCAH						LANKART 57						70 PERCENT								
1	MID	31	31	0.98	47	4.3	86	22	6.4	3.8	1	4	5.3	298	101	7.7	6.2	130	110	18	8	53
	PLAINS						GSA71						75 PERCENT								
1	LM	51	32	0.97	45	3.9	90	22	5.8	5.4	2	3	8.4	310	106	7.5	6.2	120	100	29	13	53
	SNYDER						WESTERN SP44						85 PERCENT								
1	MID	31	31	0.98	46	4.5	92	22	6.4	2.4	1	4	4.6 1/	296	96	7.5	6.0	120	110	21	11	45
	TULIA						STRIPPER 31						80 PERCENT								
1	SLM LT SP	42	31	0.94	48	4.5	88	22	6.3	5.0	1	4	6.5	313	98	7.6	6.3	120	110	26	14	39

1/ Cotton stuck to processing rolls

Table 2 --Cotton, American upland short staple: Quality characteristics by production areas, crop of 1977--(Continued)

Production Area, Classification & Sample Number			Fiber Test Results										Processing Test Results - Carded Yarns									
			Digital Fibrograph		Mike	Fiber Strength		Elon-gat'n 1/8"	S.A. Non-lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfect'ns		Spin. Potential
No	Grade Name & Code	Stple	2.5% span	Unif		Zero Gage	1/8" Gage			Gra	Yel		8s or 74 tx	22s or 27 tx	8s or 74 tx	22s or 27 tx	8s or 74 tx	22sor 27 tx	8s or 74 tx	22sor 27 tx	
		32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Lbs	Lbs	Pct	Pct	No	No	No	No	No
SOUTHWEST AREA--(Continued)																						
OKLAHOMA																						
	GRANDFIELD						LANKART 57							90 PERCENT								
2	MID LT SP	32	32	1.02	48	4.6	92	23	5.8	3.6	1	4	5.6	299	99	7.4	6.0	120	100	20	15	49
	MINCO							LANKART 611						75 PERCENT								
1	MID LT SP	32	31	0.98	47	4.8	84	21	6.4	2.5	1	4	4.1	292	98	7.7	6.3	120	110	20	11	49

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1977

Production Area, Classification & Sample Number			Fiber Test Results									Processing Test Results - Carded Yarns								
			Digital Fibrograph		Mike	Fiber Strength		Elongat'n 1/8"	S.A. Non-Lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfect'ns		Spin. Potential
No	Grade Name & Code	Stple	2.5% span	Unif.		Zero Gage	1/8" Gage			Gra	Yel		22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	
		32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Lbs	Lbs	Pct	Pct	No	No	No	No	No
SOUTHEAST AREA																					
ALABAMA																					
	MERIDIANVILLE						STONEVILLE 603						100 PERCENT								
3	LM SP	53	33	1.04	44	5.1	92	21	5.4	4.3	6	4	8.4	70	19 1/	4.0	3.7	90	60	22	21	25
	WILSONVILLE						DELTAPINE 16						90 PERCENT								
3	SLM LT SP	42	34	1.08	44	4.4	85	23	6.6	4.4	2	3	6.4	96	30	5.9	4.5	90	70	17	14	56
GEORGIA																					
	BOSTWICK						DIXIE KING III						100 PERCENT								
1	SLM SP	43	33	1.00	45	5.2	86	20	5.6	4.0	5	5	7.0	82	26	4.8	3.3	100	80	16	15	36
	SHELLMAN						DELTAPINE 16						80 PERCENT								
1	MID LT SP	32	33	1.06	45	5.2	84	24	6.5	2.5	3	4	5.6	97	28	5.7	3.9	100	80	12	10	51
SOUTHCAROLINA																					
	CHESTER						COKER 417						100 PERCENT								
2	SLM LT SP	42	35	1.11	46	4.5	91	24	5.3	4.0	3	4	6.1	110	36	5.5	4.2	100	90	15	14	63
SOUTH CENTRAL AREA																					
ARKANSAS																					
	BISCOE						STONEVILLE 213						99 PERCENT								
3	SLM LT SP	42	35	1.08	47	5.0	86	22	6.1	3.9	3	3	6.6	97	31	5.7	3.8	100	70	19	16	53
	LEACHVILLE						STONEVILLE 213						100 PERCENT								
3	LM	51	35	1.11	46	4.8	83	24	6.4	3.6	3	3	6.4	97	31	5.6	4.1	90	70	27	20	59
	WILSON						DELTAPINE 16						100 PERCENT								
3	SLM LT SP	42	35	1.09	44	4.2	89	23	6.3	2.8	4	3	5.8	109	35	6.2	4.3	90	70	12	12	60
	WYNNE						DELTAPINE 16						100 PERCENT								
3	LM	51	34	1.12	42	4.6	84	25	6.7	4.4	3	3	6.3	102	44	6.3	4.5	100	80	17	13	63
LOUISIANA																					
	ALEXANDRIA						STONEVILLE 213						75 PERCENT								
2	LM	51	34	1.06	46	4.7	81	21	6.4	2.9	3	2	6.2	92	30	5.9	4.4	90	70	24	18	52
	LAKE PROVIDENCE						DELTAPINE 16						100 PERCENT								
3	SLM	41	36	1.16	44	4.2	82	23	7.2	3.0	1	2	5.6	109	44	6.3	4.5	90	70	21	17	71
	LAKE PROVIDENCE						STONEVILLE 213						100 PERCENT								
3	LM	51	35	1.11	45	4.9	91	23	5.3	4.6	2	2	6.7	97	30	5.2	3.8	80	60	24	24	53

1/ End breakage too high to spin 50s yarn. 36s yarn spun and strength adjusted to equivalent of 50s.

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1977--(Continued)

Production Area, Classification & Sample Number			Fiber Test Results									Processing Test Results - Carded Yarns								
			Digital Fibrograph			Fiber Strength		Elon-gat'n 1/8"	S.A. Non-Lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfect'ns		Spin. Poten-tial
No	Grade Name & Code	Stple	2.5% span	Unif.	Mike	Zero Gage	1/8" Gage			Gra	Yel		22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	
		32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Lbs	Lbs	Pct	Pct	No	No	No	No	No
SOUTH CENTRAL AREA--(Continued)																					
LOUISIANA--(Continued)																					
MONROE							DELTAPINE 61						100 PERCENT								
2 SLM	41	35	1.09	47	4.4	82	23	7.2	3.3	1	3	5.3	105	35	6.5	4.8	90	60	28	18	62
SICILY ISLAND							STONEVILLE 213						100 PERCENT								
3 SLM LT SP	42	35	1.10	46	4.6	83	22	6.5	4.8	3	3	6.9	96	30	5.8	4.0	90	70	25	17	54
MISSISSIPPI																					
BELZONI							DELTAPINE 16						100 PERCENT								
3 LM	51	35	1.13	46	4.2	88	24	6.8	4.3	2	2	7.1	115	36	6.4	4.7	90	70	16	14	66
BRANDON							DELTAPINE 16						75 PERCENT								
2 SLM	41	34	1.10	45	4.7	81	21	6.8	3.0	2	3	6.7	86	24	5.5	3.8	90	70	18	13	41
EDWARDS							STONEVILLE 213						98 PERCENT								
2 SLM	41	34	1.09	46	4.5	82	21	6.0	3.4	1	3	5.8	96	31	5.7	4.1	90	70	20	14	53
GLENDORA							STONEVILLE 731N						100 PERCENT								
3 LM	51	36	1.14	47	4.9	91	23	5.0	4.9	3	2	6.9	102	32	5.2	3.7	100	70	23	14	53
GREENVILLE							DELTAPINE 26						100 PERCENT								
3 LM	51	35	1.10	46	4.4	92	23	5.7	5.7	2	2	8.1	108	35	5.8	4.0	90	60	33	23	62
SCOTT							DELTAPINE 55						100 PERCENT								
3 LM	51	35	1.14	43	3.8	87	24	6.9	4.3	2	2	6.2	109	37	6.1	4.5	90	60	21	18	68
MISSOURI																					
HAYTI							STONEVILLE 213						98 PERCENT								
3 SLM	41	35	1.12	45	4.6	88	23	5.8	3.5	2	3	5.9	105	34	5.7	4.3	90	70	19	17	57
PARMA							STONEVILLE 213						100 PERCENT								
3 LM	51	35	1.08	46	4.9	84	22	6.5	4.3	3	3	7.5	93	28	5.5	3.8	90	70	28	24	48
TENNESSEE																					
RIDGELY							STONEVILLE 213						90 PERCENT								
3 SLM LT SP	42	34	1.08	44	4.4	86	22	5.9	3.9	3	3	6.5	90	27	5.6	3.8	90	60	32	22	48
SOUTHWEST AREA																					
NORTHWEST TEXAS																					
ACKERLY							LOCKETT 4789A						70 PERCENT								
3 MID	31	31	0.95	46	4.3	89	19	5.6	3.2	0	4	5.9	94	29	5.2	3.8	90	70	12	12	39

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1977--(Continued)

Production Area, Classification & Sample Number			Fiber Test Results									Processing Test Results - Carded Yarns									
			Digital Fibrograph			Fiber Strength		Elon-gat'n 1/8"	S.A. Non-Lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfect'ns		Spin. Potential
No	Grade Name & Code	Stple	2.5% span	Unif.	Mike	Zero Gage	1/8" Gage			Gra	Yel		22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	
		32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Lbs	Lbs	Pct	Pct	No	No	No	No	No
WEST	AREA																				
ARIZONA																					
MOHAVE VALLEY							STONEVILLE 256						100 PERCENT								
1 MID	31	34	1.10	43	4.7	98	20	4.7	1.9	0	3	5.5	95	29	4.7	3.5	90	60	17	12	49
ROLL							DELTAPINE 61						97 PERCENT								
2 SLM	41	35	1.10	45	4.6	87	24	6.4	3.4	1	3	5.8	102	33	5.4	4.3	90	70	22	20	54
CALIFORNIA																					
ARVIN							ACALA SJ-2						99 PERCENT								
3 SLM	41	36	1.14	47	4.4	91	26	5.9	3.0	1	3	6.1 1/	125	43	6.0	4.7	80	60	21	18	72
ARVIN							ACALA SJ-2						98 PERCENT								
2 MID	31	35	1.13	47	4.1	98	27	5.7	2.4	0	3	3.7 1/	128	46	6.3	4.9	70	60	32	19	77
BAKERSFIELD							ACALA SJ-2						93 PERCENT								
2 MID	31	35	1.12	46	4.2	98	26	5.5	2.5	1	3	5.8 1/	123	40	5.8	4.5	80	60	26	19	65
3 MID	31	35	1.10	44	4.2	97	26	5.5	2.9	1	3	No spinning data. Cotton would not pass through card.									
BAKERSFIELD							ACALA SJ-2						100 PERCENT								
1 SM	21	36	1.12	48	4.2	99	27	5.6	1.9	0	3	4.6 1/	134	46	6.1	4.9	90	60	14	11	76
2 SLM PLUS	40	36	1.13	47	4.0	95	28	5.7	2.4	1	3	9.2 1/	130	44	6.2	4.7	90	70	20	19	80
BUTTONWILLOW							ACALA SJ-2						100 PERCENT								
1 SLM PLUS	40	36	1.15	47	4.1	98	27	5.6	1.8	1	3	4.4 1/	133	48	6.2	4.9	80	70	20	17	83
CHOWCHILLA							ACALA SJ-4						100 PERCENT								
1 SLM	41	36	1.11	47	3.9	107	30	5.2	3.9	1	3	5.6	142	51	6.3	4.7	90	70	26	17	87
COALINGA							ACALA SJ-2						94 PERCENT								
1 MID	31	35	1.08	45	4.3	103	28	5.4	2.7	0	3	5.3	128	37	5.9	4.9	90	60	18	14	68
COALINGA							ACALA SJ-2						100 PERCENT								
1 MID	31	35	1.12	47	3.9	96	26	5.5	2.2	0	3	4.2	131	45	6.2	4.7	90	70	17	12	75
FIREBAUGH							ACALA SJ-2						93 PERCENT								
1 MID	31	36	1.12	47	4.1	99	28	5.6	1.9	0	2	4.5	141	51	6.4	5.0	90	60	29	19	88
FIVE POINTS							ACALA SJ-2						100 PERCENT								
1 SLM PLUS	40	35	1.10	46	4.5	98	26	5.5	2.9	1	3	6.0 1/	128	45	5.7	4.4	90	60	22	18	76

1/ Cotton stuck to processing rolls

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1977--(Continued)

Production Area, Classification & Sample Number			Fiber Test Results									Processing Test Results - Carded Yarns								
			Digital Fibrograph			Fiber Strength		Elongat'n 1/8"	S.A. Non-Lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfect'ns		Spin. Potential
No	Grade Name & Code	Stple	2.5% span	Unif.	Mike	Zero Gage	1/8" Gage			Gra	Yel		22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	
		32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Lbs	Lbs	Pct	Pct	No	No	No	No	No
WEST AREA--(Continued)																					
CALIFORNIA--(Continued)																					
LOS BANOS							ACALA SJ-2						96 PERCENT								
1 SLM PLUS	40	36	1.14	47	4.2	97	27	6.2	3.0	0	3	5.3	130	46	6.4	4.7	90	70	23	17	78
MENDOTA							ACALA SJ-4						76 PERCENT								
1 MID PLUS	30	35	1.10	46	4.2	104	28	5.2	1.8	0	2	4.7	135	47	5.9	4.6	90	60	22	17	73
RIPLEY							DELTAPINE 61						96 PERCENT								
2 MID LT SP	32	34	1.07	45	4.8	89	24	5.9	2.8	1	3	6.5	99	32	5.5	3.9	90	70	25	20	54
3 MID LT SP	32	34	1.09	44	4.6	85	24	6.3	2.8	2	3	6.3	99	32	5.5	3.9	80	70	21	18	53
SAN JOAQUIN							ACALA SJ-2						94 PERCENT								
1 SLM PLUS	40	35	1.12	46	3.9	98	27	6.2	2.4	0	3	5.1	129	46	6.2	4.7	90	70	12	9	77
SHAFTER							ACALA SJ-2						100 PERCENT								
1 SLM	41	36	1.15	47	4.1	93	28	5.9	3.1	1	3	6.0 1/	131	46	6.4	5.0	80	60	33	26	76
2 SLM	41	36	1.13	46	4.1	92	26	5.5	3.6	1	3	6.6 1/	124	43	6.0	4.7	80	60	30	21	71
STRATHMORE							ACALA SJ-4						97 PERCENT								
1 SLM	41	36	1.12	47	4.2	100	28	5.4	2.2	1	3	5.4 1/	135	48	6.3	4.9	90	60	23	18	82
TULARE							ACALA SJ-4						95 PERCENT								
1 SLM	41	36	1.13	47	4.0	99	28	5.4	3.0	1	3	5.1 1/	136	47	6.3	4.9	90	70	33	24	79
2 SLM	41	36	1.13	46	3.8	95	27	5.7	2.7	1	3	5.6	133	48	6.3	4.9	80	60	29	22	79
VISALIA							ACALA SJ-4						95 PERCENT								
1 MID	31	36	1.13	47	4.1	104	28	5.3	1.4	0	3	3.7 1/	136	49	6.1	5.0	80	70	27	18	84
2 MID	31	36	1.12	46	3.9	100	28	5.3	1.5	0	3	4.6	138	52	6.3	4.9	90	60	23	15	86
VISALIA							ACALA SJ-4						98 PERCENT								
1 SLM PLUS	40	36	1.12	47	4.1	99	28	5.7	1.7	0	3	4.3	141	51	6.0	4.8	90	70	25	22	81
WESTMORLAND							DELTAPINE 61						100 PERCENT								
1 MID	31	34	1.06	46	5.1	93	23	5.3	2.3	1	3	5.2	92	27	4.7	3.5	90	70	22	18	45

1/ Cotton stuck to processing rolls

Table 4 --Cotton, American upland long staple: Quality characteristics by production areas, crop of 1977

Production Area, Classification & Sample Number			Fiber Test Results									Processing Test Results - Carded Yarns									
			Digital Fibrograph			Fiber Strength		Elon-gat'n	S.A. Non-Lint	Color Raw Stock		P & C and Comber Waste	Strength		Elongation		Appearance Index		Imprfect'ns		Spin. Poten-tial
No	Grade Name & Code	Stple	2.5% span	Unif.	Mike	Zero Gage	1/8" Gage	1/8"		Gra	Yel		22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	
		32s	In	Pct	Rdg	Mpsi	G/tex	Pct	Pct	No	No	Pct	Lbs	Lbs	Pct	Pct	No	No	No	No	No
SOUTHEAST		AREA																			
GEORGIA																					
	MADISON						COKER 310						100 PERCENT								
1	SLM LT SP	42	33	1.05	45	5.1	92	22	5.5	3.4	4	4	10.8	91	28	4.8	3.4	110	90	15	12	50
WEST		AREA																			
NEW MEXICO																					
	HATCH						ACALA 1517-75						99 PERCENT								
1	MID LT SP	32	37	1.20	47	4.1	91	28	5.9	3.6	1	3	5.2	131	50	6.4	5.3	90	60	31	24	97
	LAS CRUCES						ACALA 1517-V						100 PERCENT *								
1	MID	31	36	1.14	46	4.7	85	24	6.6	1.7	1	3	4.5	121	43	5.9	5.0	90	70	23	14	78
WEST TEXAS																					
	CLINT						ACALA 1517-70						70 PERCENT								
1	SLM	41	37	1.20	47	3.3	93	28	5.7	4.4	2	3	6.8	136	51	6.1	4.9	100	70	20	17	67

* 100% selected for tests, less than 100% in area